

## Purchase Order Receipt Listing

Tuesday, June 20, 2017 11:03:42 AM

All amounts are calculated in domestic currency.

Page 1 of 2

All Vendors PO ID PO36688 Receipt Dates from 6/19/2017 to 6/19/2017  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Type	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/	Vendor Name	VU-TWM001	TW Metals	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
PO36688	1 USD	No	<del>M304TR0.500W.035 f 304 RD Tube .500 x .35W</del>	6/20/2017 48.0000	6/19/2017 PLOU01	40.0000	0.0000 0.0000	0 0	\$0.00		
	2 No		<del>M304TR0.500W.049 f 304 RD Tube .500 x .49W</del>	6/20/2017 48.0000	6/19/2017 PLOU01	40.0000	0.0000 0.0000	0 0	\$0.00		
	3 No		<del>M4130NT0.750W.04 f 4130 RD Tube .750 x .049W</del>	6/20/2017 40.0000	6/19/2017 PLOU01	47.8340	0.0000	0 0	\$0.00		
	4 No		<del>M2024T3T1.000W.06 f 2024T3 Tubing 1" OD x 0.65" Thick</del>	6/20/2017 24.0000	6/19/2017 PLOU01	24.0000	0.0000	0 0	\$0.00		
	5 No		<del>5 TUBING 0.500" X .049" WALL 1/8 HARD</del>	6/20/2017 20.0000	6/19/2017 PLOU01	19.3330	0.0000 0.0000	0 0	\$0.00		
	6 No		<del>71401-45 PROCUREMENT QUALITY CLAUSES</del>	6/20/2017 1.0000	6/19/2017 PLOU01	1.0000	0.0000 0.0000	0 0	\$0.00		

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID Reference/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty	MRB Qty/ MRB Reject (PO U/M)	Book Amt

Total Received Quantity:	172.1670
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$0.00
Total Balance Due Quantity:	16.6670



O'Neal High-Performance Metals Group



Packing  
Slip

ORDER NO.: 60633840 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 39.424 REQ. DATE: 06/20/17 CONFIRMED  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD DART AEROSPACE LTD  
1270 ABERDEEN ST 1270 ABERDEEN ST  
HAWKESBURY ON HAWKESBURY ON  
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 06/14/17  
TERMS: NET 30 DAYS VIA: COMMON CARRIER  
F.O.B.: SHIPPING POINT FREIGHT: PREPAID  
CUST ORD NO.: PO36688 RELEASE NO.:  
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH  
0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	40.000 FT	40.000 FT	40.000 FT	9.437

PCS 2

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00  
PO:49336439 HT:YX1506712 PC: 2 CUSTOMER QTY:  
MLT:CHINA MFG:CHINA SLB/CL:12-19

0002 33047 CDS 4130 6736 3/4 X .049 17/24 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	40.000 FT	47.834 FT	47.834 FT	17.542

PCS 3

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00  
PO:49353474 HT:598618 PC: 3 CUSTOMER QTY:  
MLT:GERMANY MFG:GERMANY SLB/CL:1625993

0003 43260 D2024-T3 1 OD X .065 WA 12 FT ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	24.000 FT	24.000 FT	24.000 FT	5.495

PCS 2

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00  
PO:49341478 HT:F002012480001 PC: 2 CUSTOMER QTY:  
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:219348

Q17620

1

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE  
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL  
REVIEW.  
<http://www.twimetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group

Packing  
Slip

ORDER NO.: 60633840 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 39.424 REQ. DATE: 06/20/17 CONFIRMED  
 SOLD TO: SHIP TO:  
 DART AEROSPACE LTD DART AEROSPACE LTD  
 1270 ABERDEEN ST 1270 ABERDEEN ST  
 HAWKESBURY ON HAWKESBURY ON  
 CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 06/14/17  
 TERMS: NET 30 DAYS VIA: COMMON CARRIER  
 F.O.B.: SHIPPING POINT FREIGHT: PREPAID  
 CUST ORD NO.: PO36688 RELEASE NO.:  
 RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH  
 0004 36476 SMLS CD 316/L A269 1/2 OD X .035 WA 20' ML

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	40.000 FT	40.000 FT	40.000 FT	6.950

(PCS 2)

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00  
 PO:49336435 HT:YX1506597 PC: 2 CUSTOMER QTY: UOM  
 MLT:CHINA MFG:CHINA SLB/CL:11-93

BROKERS KUEHNE AND NAGEL LTD

PACK INFO					
AREA	TYPE OF PKG	PKGS	GRS	WEIGHT	WIDTH
NEW PEN CARTON		1.000		98.000	4.0000
		Box No -		TWPK17002270	293.0000
NEW PEN CARTON		1.000		4.0000	293.0000
		BOX NO -		TWPK17002264	4
				2.000	98.000

BY:  
RT 000-

UNLOAD TYPE: NONE SPECIFIED

SL17620

DATE SHIPPED \_\_\_\_\_

DATE FILLED \_\_\_\_\_

1  
THANK YOU FOR THIS ORDER

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O'Neal High-Performance Metals Group



**Packing  
Slip**

ORDER NO.: 60633840      FROM: CRAN      PAGE 3

CUST NUMBER: 1203820	NET WGT:	39.424	REQ. DATE: 06/20/17	CONFIRMED
SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA		SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON ONTARIO CANADA		
CN K6A 1K7		CN K6A 1K7		
SALESPERSON:	DONNA SMALLEY	SHIP BY:	06/14/17	
TERMS:	NET 30 DAYS	27 ENGLEHARD DRIVE		
F.O.B.:	SHIPPING POINT	MONROE TWP	NJ 08831	
CUST ORD NO.:	PO36688			
VIA:	COMMON CARRIER			
FREIGHT:	PREPAID			
RELEASE NO.:				
RECEIVING PHONE:				

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

**"CERTIFICATE OF CONFORMANCE"**

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk

*Cyril Manuk*

Date: 6/14/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.



O'Neal High-Performance Metals Group

Packing  
Slip

ORDER NO.: 70659916 FROM: ATLA PAGE 1

CUST NUMBER: 1203820    NET WGT: 4.561    REQ. DATE: 06/20/17 CONFIRMED  
 SOLD TO: SHIP TO:  
 DART AEROSPACE LTD DART AEROSPACE LTD  
 1270 ABERDEEN ST 1270 ABERDEEN ST  
 HAWKESBURY ON HAWKESBURY ON  
 CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY    SHIP BY: 06/14/17  
 TERMS: NET 30 DAYS    VIA: FED-EX GROUND  
 F.O.B.: SHIPPING POINT    FREIGHT: PREPAID  
 CUST ORD NO.: PO36688 IT 5

LINE	ITEM DESCRIPTION	WIDTH	LENGTH	
0001	36510 SMLS CD 304 6845 1/8 HD 1/2 X .049	17/24 FT		
CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT
	20.000 FT	19.333 FT	19.333 FT	4.561

\*\* 1 TEST REPORTS REQUIRED \*\*  
 \*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d    Export License: NLR    Expiration Date: 0/00/00  
 PO:49367931 HT:543441    PC: 3    CUSTOMER QTY:    UOM  
 MLT:SWEDEN    MFG:UNITED STATES    SLB/CL:61708

BROKERS KUEHNE AND NAGEL LTD  
 CUT INTO THIRDS TO SHIP

SP 17/6/20

PACK INFO					
AREA	TYPE OF PKG	PKGS	GRS	WEIGHT	WIDTH
FED EX	CARTON	1.000	8.000	2.0000	84.0000
		1.000	8.000		2

BY: JT  
 RT 000-    UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED \_\_\_\_\_

DATE FILLED \_\_\_\_\_

1  
**THANK YOU FOR THIS ORDER**

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 REVIEW.  
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O'Neal High-Performance Metals Group



**Packing  
Slip**

ORDER NO.: 70659916      FROM: ATLA      PAGE 2

CUST NUMBER: 1203820	NET WGT:	4.561	REQ. DATE: 06/20/17	CONFIRMED
SOLD TO:		SHIP TO:		
DART AEROSPACE LTD		DART AEROSPACE LTD		
1270 ABERDEEN ST		1270 ABERDEEN ST		
HAWKSBURY ON		HAWKSBURY ON		
CANADA		ONTARIO CANADA		
CN K6A 1K7		CN K6A 1K7		
SALESPERSON:	DONNA SMALLEY	SHIP BY:	06/14/17	
TERMS:	NET 30 DAYS	175 TUBEWAY		
F.O.B.:	SHIPPING POINT	FOREST PARK	GA 30297	
CUST ORD NO.:	PO36688 IT 5			
VIA:	FED-EX GROUND			
FREIGHT:	PREPAID			
RELEASE NO.:				
RECEIVING PHONE:				

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

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Authorized Test Report Clerk

Date: 6/14/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.



416 DEPOT STREET  
BRIDGEPORT, PA 19405

PH: (610) 279-7700  
FAX: (610) 277-2005

## TEST REPORT



ISO/IEC 17025  
Materials Testing Laboratory

TMI Mill# 49917-6	TMI Lot# 61708	Customer P.O. # M49367931	Quantity <u>483 ft</u>
Sold to: <b>TW Metals</b> PO Box 644 760 Constitution Dr. Exton, PA, 19341	Type & Grade 304 Seamless	Size 0.5000"+/-0.0030 OD 0.0490"+/-10.% Wall	
<input checked="" type="checkbox"/> FAR TAA <input checked="" type="checkbox"/> DFARS BAA <input checked="" type="checkbox"/> FAR BAA	Specifications AMS-5566 Rev. M, MIL-T-6845 TYPE I 1/8 Hard Rev. D, AMS-T-6845 TYPE I 1/8 Hard Rev. B, DFARS Compliant, DFAR 252.225-7014		

### Chemical Analysis (Wt %)

HEAT#: 543441 Melt Source / Analysis: SANDVIK, SWEDEN

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Fe	N
.017	1.60	.030	.011	.43	18.36	10.21	.29	.24	Bal	.035

### Mechanical Properties

Tensile Strength 115,000 PSI	0.2% Offset Yield Strength 97,000 PSI	% Elongation 26	Hardness
116,000 PSI	102,000 PSI	24	
			<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>TEST REPORTS ACCEPTED BY</b>            MAR 31 2017          49367931  <b>TW METALS</b> </div>

Visual	Passed	Dimensional	Passed
Grain Size	ASTM# 7.5	Bend	PASSED
Passivat	PASSED	Embrittlement	PASSED
Flare	PASSED > .656" - 74°	Eddy Current	PASSED 10% Notch Level
Profilometer	OD RHR 22 / ID RHR 55	Hydrostatic	PASSED 16,200 PSI
Loose Mtl Check	PASSED	Surface	PASSED

LEAK TEST - PASSED

I certify that this is correct and conforms to above specifications.

Nicholas Ricci, Plant Metallurgist 04/27/2016 Page 1 of 1

The test report shall not be reproduced except in full, without the written approval of the laboratory. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Carol Stream			Certificate No.: 16-1-92						
Contract No.: TWM P.O.No.: M49336439			Date of Issue.: 2016.1.5						
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW							
Process: Cold Drawn			Delivery Condition: OD Polished to 240 Grit						
Steel Grade	Heat Number	DAS 39	Lot Number	Dimensions		Quantity			
TP304/TP304L	YX1506-712	9-89	12-19	1/2" x 0.049" x 20'		2300	46,000		
Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.013	0.65	0.032	0.002	0.32	18.28	8.05	-	-
Product Analysis	0.017	0.61	0.033	0.002	0.28	18.31	8.55	-	-
Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI) Rm			Yield Strength (PSI) Rp / 0.2%			
Requirements	≥35		≥75,000			≥30,000			
Test Results	63/64		97,000/98,000			43,000/44,000			
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	HRB≤80		-	22%	e=0.09	-	-		
Test Results	77/79		-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA



By:

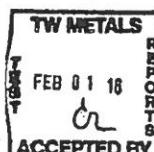
James Shi

James Shi / Manager  
Quality Control Department

We hereby certify that this report is true and correct.

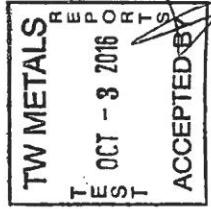
Shanghai Pufa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



ACCEPTED BY

<b>ABNAHMEPRÜFZEUGNIS EN 10204-3.1</b> INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 EN 10204:2005-01	<b>Dokument-Nr.:</b> Document No.: No. du document:	<b>41-961797/001/P</b>	<b>Prüf-Nr.:</b> Inspection No.: No. du certificat:	<b>Blatt:</b> 1 / 4
Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland	<b>Kunden-Bestell-Nr.:</b> Purchase Order No.: No. de commande du client:	46004384 TW/M49353474	<b>Hersteller:</b> Manufacturer: Producteur:	Warmrohwerk/Zieherei: IDN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TUEV NORD CERT (PED 2014/68/EU CERTIFIED BY TUEV NORD SYSTEMS)
TW Metals The Aboretum, Suite 204 760 Constitution Drive EXTON PA 19341 USA	<b>Benteler Auftrags-Nr.:</b> No. de commande Benteler:	1625993	<b>Herstellerzeichen:</b> Manufacturer's brand: Marque du producteur:	
	<b>Versandanzeigen-Nr.:</b> Dispatch Note No.: No. d'avis d'expédition:	4170922	<b>Stempel des Abnahmeherausforderer:</b> Stamp of the inspection representative: Pointçon du contrôleur:	WA
	<b>Produkt:</b> Product: Produit:	NAHTLOSE STAHLROHRE SEAMLESS STEEL TUBES TUBES D' ACIER SANS Soudure	<b>Stahlerschmelzungsverfahren:</b> Steelmaking process: Procédé d'élaboration de l'acier: FOUR ELECTRIQUE	ELEKTROSTAHL ELECTRIC FURNACE FOUR ELECTRIQUE
<b>Lieferbedingungen:</b> Terms of delivery: Conditions de livraison:	AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M, AMS 2301K			
<b>Maße - Toleranzen:</b> Dimensions-tolerances: Dimensions-tolerances:	AMS 2253E-83, Aircraft Type, Seamless, Cold Finished			
<b>Stahlsorte:</b> steel grade:	GRADE 4130			
<b>Lieferzustand:</b> Delivery condition: Etat de livraison:	Condition N			
<b>Produktkennzeichnung:</b> Product marking:	FSD: BENTELER AMS6360M-AMS-T-6736 B 1-MIL-T-6736 B 1-AMS 2301K 4130 Condition N HEAT-NO. CD AQS DIMENSIONS WA GERMANY			
<b>Marquage du produit:</b> Marquage par couleur:	FSD = Farbschablonierung, paint stenciling, marquage par couleur • FS = Farbstahldrucker, Color jet printer, imprimante à jet d'encre de couleur • LK = Laserkennzeichnung, Laser marking, Marquage laser • PKE = Etikettentankenzeichnung, tag marking, marquage sur étiquette • PS = Prägestempel, die stamp, marquage par poignée • TS = Tintenstrahldruckzeichnung, ink jet spray marking, imprimante à jet d'encre .			





**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Zugversuch längs bei RT, Vollprobe / Tensile test longitudinal at RT, Full section test specimen

/ Essai de traction longitudinale à TA, Eprouvette a section complete

Anforderungen Requirements				Dokument-Nr.: Document No.: No. du document:	41-961797/001/P	Prüf-Nr.: Inspection No.: No. du certificat:	Blatt: 3 / 4 Page: Page:
Pos. Item	Proben-Nr. Specimen No.	Schmelzen-Nr. Heat No.	Probenabmessung Specimen dimensions Dimensions de l'éprouve.	Streckgrenze Yield strength Limite élastique	Zugfestigkeit Tensile strength Résistance à la traction Allongement	Déhnung Elongation	
Poste	No. de l'éprouv. No. de coulée			Rp 0,2 % KSI mm	Rm KSI MIN 95	A2" % MIN 12,00	1. Formel 1. Formule 1. Formule
0003	000001	598618	19,05 X	1,25	120	128	18,00
0003	000002	598618	19,05 X	1,25	120	128	18,00
0003	000003	598618	19,05 X	1,25	118	127	18,00
0003	000004	598618	19,05 X	1,25	120	128	18,00
0003	000005	598618	19,05 X	1,25	118	128	18,00

Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. /Item /Poste: 0003  
acc. to AMS-6360, partial decarburization outside max. 0.009 in, partial  
decarburization outside and inside max. 0.012 in, partial decarburization outside and inside max. 0,305 mm, without total  
decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm

Vermerk / Remark / Remarque

Pos. /Item /Poste: 0003  
Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA:

52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out,  
Country of origin of the material and heat: Germany, Aircraft quality steel acc. to AMS 2301K; see appendix page 1 of 1

Pos. /Item /Poste: 0003  
Macroscopic examination: acc. to ASTM-E 381

Pos. /Item /Poste: 0003  
Magnetic particle inspec.: acc. to AMS 2301K/ASTM-E 1444, on prematerial

Pos. /Item /Poste: 0003  
Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée : Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

**BENTELER** ▼  
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

41-961797/001/P

Dokument-Nr.:

Document No.:

No. du document:

Prüf-Nr.:

Inspection No.:

No. du certificat:

Blatt: 4 / 4

Page: 4

Page:

Paderborn Schloß Neuhaus, 19.09.2016, TEL.: 05254.81-201765 FAX: 05254.81-201752

Abnahmebeauftragter  
Inspection representative  
Contrôleur

**J.A. THOMAS GOLLAN / GUT**

Es wird bestätigt, daß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.  
We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.  
Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

**Abnahmeprüfzeugnis EN 10204-3.1 / Anhang  
Inspection Certificate EN 10204-3.1 / appendix  
Certificat de réception EN 10204-3.1 / appendice :**

Dokument-Nr.  
**Document No.:**  
No. de document

41-961797/001/P

1 of 1 von de

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fin: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Körngröße Grain size Grosseur de grain (ASTM-E 112)	Härtbarkeit (min. Anforderungen) Hardenability (min. requirements) Tremppabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301K)		Macrostruktur Macrostructure test Essai de macrostructure (ASTM-E 381)	
			min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2
598618	003	9	42	34	0,029	0,024	S 2	R 1
		Decarburization Depth	Outside 0,000 mm	Inside 0,000 mm			C 2	BENTELER V

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des

Paderborn Schloß Neuhaus, 21.09.2016  
Tel.: (0)5254-81-201760 Fax: (0)5254-81-201752  
Abnahmebeauftragter  
Inspection representative  
Controleur

Thomas Gallan

*Best in Class*

KAISER ALUMINUM  
 FABRICATED PRODUCTS, LLC  
 6573 W. WILLIS ROAD  
 CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49341478-1		CUSTOMER PART NUMBER: 43260		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe			
KAISER ORDER NUMBER: 219348	LINE ITEM: 001	SHIP DATE: 11/02/2015	KAISER LOT NUMBER: F00201248	ALLOY: 59 9-89 2024	TEMPER: T3		
WEIGHT SHIPPED: 379.000 LB	QUANTITY: 138.000 PCS	B/L NUMBER: 220262	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT		
SHIP TO:  TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA	SOLD TO:  TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA						

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00201248	0001	1	69.9	50.0	22.5	N/A	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

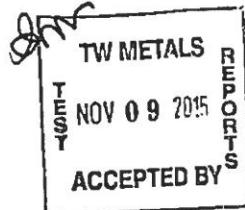
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.50	0.50	4.90	0.90	1.80	0.10	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.00	0.00	3.80	0.30	1.20	0.00	0.00	0.00	NA	NA	NA	0.00	0.00
D82179	.10	.14	4.60	.72	1.36	.01	.05	.02	.00	.00	.01	.05	.06

### Applicable Requirements:

Description: OD: 1.0000"; Wall: 0.0650"; Round @  
 AMS-4088K AMS-WW-T-700/3A ASTM B210-12  
 This Product Complies to FAR BAA, DFARS BAA, FAR TAA  
 COMPLIES TO DIN EN 10204 JAN 2005  
 No Weld Repair. Mercury Free.

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA  
 (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5  
 TRADE AGREEMENTS).



Plant Serial: 00020683  
 Kaiser Order Number: 219348  
 Line Item: 001



KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://Online.KaiserAluminum.com>

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Nathaniel Stevens, Quality Manager

A handwritten signature in black ink that reads "Nathaniel Stevens".

PUFA™

Producer of Premium Stainless Steel Seamless Tubes

MILL TEST REPORT

Purchaser.: TW METALS-Cranbury		Certificate No.: 16-1-10		
Contract No.: TWM P.O.No.: M49336435		Date of Issue.: 2016.1.5		
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW		
Process: Cold Drawn		Delivery Condition: OD Polished to 240 Grit		
Steel Grade	Heat Number	Lot Number	Dimensions	Quantity
				Pieces      Feet
TP316/TP316L	YX1506-597	11-93	1/2" x 0.035" x 20"	500      10,000

Chemical Composition by Weight (%)

Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	16.00-18.00	10.00-14.00	2.0-3.0	-
Ladle Analysis	0.016	0.63	0.027	0.003	0.31	16.69	10.05	2.02	-
Product Analysis	0.016	0.61	0.032	0.007	0.34	16.67	10.35	2.03	-

Mechanical Properties

Test Item	Elongation (% in 2")		Tensile Strength (PSI)			Yield Strength (PSI)		
			Rm			Rp / 0.2%		
Requirements	≥35		≥75,000			≥30,000		
Test Results	63/64		88,000/89,000			41,000/42,000		
Test Item	Reduction of Area Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test	
Requirements	-	HRB≤80	-	22%	e=0.09	-	-	
Test Results	-	76/78	-	Passed	Passed	-	OK	
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection			
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance		
Test Results	Passed	-	-	OK	OK	OK		

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

(1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

(2) All tubes tested per ASTM A1016-14

(3) Materials is NACE MR0103-2007 compliant (per Section 2.5)

(4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)

(5) In Compliance with EN 10204-3.1

(6) In Compliance with RoHS Stipulation

(7) No weld repair performed

(8) Free from mercury contamination

(9) Free from radioactive contamination

(10) Billets melt and pipes/tubes manufactured in China

(11) All tubes 100% PMI tested

(12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA

By:

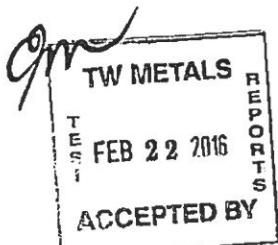


James Shi

Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory  
No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TR0,500W,035  
 DATE: JUN 20 2017

PO / BATCH NO.: 233688/M137834

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 401  
 QUANTITY INSPECTED: 401  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.035  
 THICKNESS RECEIVED: W.032  
 SHEET SIZE ORDERED:   
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	<i>Asim A213</i>
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	<i>H# YX1506712</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>39</u> <u>9-89</u>	SIGNED OFF BY: _____	
DATE: <u>JUN 20 2017</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

D

PURCHASE MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING

SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	PERMISSABLE OD TOL (IN)	PERMISSABLE WALL TOL.
UP TO $\frac{1}{2}$	$\pm 0.005$	$\pm 15\%$
$\frac{1}{2}$ TO $1\frac{1}{2}$ , EXCL.	$\pm 0.005$	$\pm 10\%$
$1\frac{1}{2}$ TO $3\frac{1}{2}$ , EXCL.	$\pm 0.010$	$\pm 10\%$
$3\frac{1}{2}$ TO $5\frac{1}{2}$ , EXCL.	$\pm 0.015$	$\pm 10\%$
5 $\frac{1}{2}$ TO 8, EXCL.	$\pm 0.030$	$\pm 10\%$

PART NUMBER:

M304TR|OD|WALL

WHERE "OD" = OUTSIDE DIAMETER IN INCHES  
AND "WALL" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR.375W.065

D

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C

B

C

B

A

REF. NO.		REF. NO.		REF. NO.	
B	REFORMAT DWG. ADD SPECS (ZN DB-1), REF PAR 08-020A	C	CP	08.10.20	
A	NEW ISSUE		DS	01.06.08	
REV.		DESCRIPTION	BY	DATE	
DESIGN		DART AEROSPACE LTD			
DRAWN		HAWKESBURY, ONTARIO, CANADA			
CHECKED		DRAWING NO.			
MFG. APPR.		M304TR			
APPROVED		TITLE			
DE APPR.		304/316 ROUND TUBING			
DATE	08.10.20	COPYRIGHT © 2001 BY DART AEROSPACE LTD			
		NOT TO BE USED FOR ANY PURPOSE OTHER THAN COMMERCIAL OR INDUSTRIAL. DRAFTING STANDARDS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN COMMERCIAL OR INDUSTRIAL.			
		PRINTED ON 100% RECYCLED PAPER			
		100% RECYCLED PAPER			

**RELEASED**  
*12/23/01*

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130NT0.750W.049  
 DATE: JUN 20 2017

PO / BATCH NO.: PO36688/M137834

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 47'  
 QUANTITY INSPECTED: 47'  
 QUANTITY REJECTED: &

THICKNESS ORDERED: W.049  
 THICKNESS RECEIVED: W.049  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	AMS56360
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	AT#598618
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	<u>JAS</u>	39	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>9-89</u>		SIGNED OFF BY:
DATE:	<u>JUN 20 2017</u>		DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 4130N SEAMLESS STEEL TUBING

SPECIFICATION: MIL-T-6736 OR AMS 6371, 6360, 6361, 6362, 6373, 6374

PART NUMBER: M4130N[DIA.DDDW.TTT]

WHERE: "DDD" = OUTER DIAMETER (IN INCHES)  
AND "TTT" = WALL THICKNESS (IN INCHES)

EG. 3/4" TUBING WITH .035" WALL = M4130N0.750W.035

B		REFORMAT DWG TO ACCOMMODATE ADDITIONAL TUBE		R/P	12.04.02
A	REV	NEW ISSUE	DESCRIPTION	BY	01.05.16
DESIGN	JB		<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA		
DRAWN	RP		DRAWING NO.		
CHECKED	AP		M4130N-T	REV. B	SHEET 1 OF 1
MFG. APPR.			TITLE	SCALE	NOTES
APPROVED			STEEL TUBING		
DE APPR.					
DATE	12.04.02				

RELEASE  
2012-04-16

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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3047R0500W049

PO / BATCH NO.: PO36688/M137834

DATE: JUN 20 2017

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: W.049

QUANTITY RECEIVED: 40

THICKNESS RECEIVED: W.046

QUANTITY INSPECTED: 40

SHEET SIZE ORDERED:

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	<i>A5tm 4213</i>
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	<i>HT# YX1506597</i>
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

*testers located in the Quality Office*

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS 39</u>	SIGNED OFF BY:	
DATE:	<u>9-89 JUN 20 2017</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

D

D

PURCHASE MATERIAL: ASTM A213 OR ASME SA213 OR ASTM A269  
 SPECIFICATION: ASTM A213 OR ASME SA213 OR ASTM A269

WALL THICKNESS TOLERANCE PER ASTM A269 AS FOLLOWS:

OD (IN)	OD TOL (IN)	PERMISSABLE WALL TOL.
UP TO $1\frac{1}{2}$	$\pm 0.005$	$\pm 15\%$
$\frac{3}{8}$ TO $1\frac{1}{4}$ , EXCL.	$\pm 0.005$	$\pm 10\%$
$1\frac{1}{4}$ TO $3\frac{3}{8}$ , EXCL.	$\pm 0.010$	$\pm 10\%$
$3\frac{3}{8}$ TO $5\frac{1}{8}$ , EXCL.	$\pm 0.015$	$\pm 10\%$
5 $\frac{1}{8}$ TO 8, EXCL.	$\pm 0.030$	$\pm 10\%$

PART NUMBER:

M304TR|D|DDD|W|TTT|

OD | WALL |

WHERE "D,DDD" = OUTSIDE DIAMETER IN INCHES  
 AND ".TTT" = WALL THICKNESS IN INCHES

EG. 0.375" OD X 0.065" WALL TUBING = M304TR0.375W.065

A	B	C	D
RELEASED <i>2023-07-01</i>			
REFORMAT DWG. ADD SPECS (ZN DB-1), REF PAR 08-020A			
B	C/P	08.10.20	
A	DS	01.08.08	
REV	DATE		
DESCRIPTION		DART AEROSPACE LTD	
DESIGN	DRAWN <i>PF</i>	HAWKESBURY, ONTARIO, CANADA	
DRAWN	CHECKED <i>AM</i>	DRAWING NO M304TR	
MFG. APPR.	TITLE	REV. B	
APPROVED	304/316 ROUND TUBING	SHEET 1 OF 1	
DE APPR	DATE 08.10.20	SCALE NTS	
<small>NOTICE: All drawings are the property of DART Aerospace Ltd. Copying or distribution without written permission is prohibited.</small>			

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## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M202473H1, 000L, 005  
 DATE: JUN 20 2017

PO / BATCH NO.: 036688/137834

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 241  
 QUANTITY INSPECTED: 241  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.065  
 THICKNESS RECEIVED: 1.065  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	14#F00201248
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

*testers located in the Quality Office*

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>DAS 39 9-89</u>	SIGNED OFF BY: _____
DATE:	<u>JUN 20 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36688**

Purchase Order Date 6/13/2017

PO Print Date 6/14/2017

Page Number 1 of 3

**Order From :** VU-TWM001  
TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**E-MAILED**  
JUN 13 2017

<b>Contact Name</b>		<b>Buyer</b>	Chantal Lavoie
<b>Vendor Phone</b>	585 768 5600	<b>Customer POID</b>	
<b>Ship To Contact</b>		<b>Customer Tax #</b>	10127-2607
<b>Ship To Phone</b>		<b>Terms</b>	Net 30
<b>Ship Via:</b>	YRC COLLECT	<b>Currency</b>	USD
<b>Ship Acct:</b>		<b>FOB</b>	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304TR0.500W.035	304 RD Tube .500 x .035W	6/20/2017 Yes 6/20/2017		48.00 f	\$1.50 ✓	\$72.00 60.00
					<i>Rec'd 40P 2x</i>		
2	M304TR0.500W.049	304 RD Tube .500 x .049W	6/20/2017 Yes 6/20/2017		48.00 f	\$2.80 ✓	\$134.40 112.00
					<i>Rec'd 40P 2x Split 6-30</i>	<b>Line Total:</b>	<b>\$134.40</b>

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

**Note:**



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36688**

Purchase Order Date 6/13/2017  
PO Print Date 6/14/2017

Page Number 2 of 3

**Order From :**  
TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

VU-TWM001

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 585 768 5600  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** YRC COLLECT  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** USD  
**FOB** FCA - (Free Carrier)

3	M4130NT0.750W.049	4130 RD Tube .750 x.049W	6/20/2017	40.00	\$6.00	\$240.00
			Yes	f		287.00
			6/20/2017			

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING  
AS PER MIL-T-6736 OR AMS 6371/6360/6361  
6362/6373/6374

Rec'd 47.834  
3X

4	M2024T3T1.000W.065	2024T3 Tubing 1" OD x 0.65" Thick	6/20/2017	24.00	\$7.50	\$180.00
			Yes	f	7.36	176.64
			6/20/2017			

AS PER MATERIAL 2024-T3 ROUND TUBING, MATL SPEC'S AMS-QQ-A-250/4

2X

				<b>Line Total:</b>	<b>\$240.00</b>
--	--	--	--	--------------------	-----------------

5	71900-90	304 ROUND TUBING 0.500" X .049" WALL 1/8 HARD	6/20/2017	20.00	\$11.50	\$230.00
			Yes	Each	7.25	160.25
			6/20/2017			

AS PER AMS 5566 SEAMLESS

1X

				<b>Line Total:</b>	<b>\$180.00</b>
--	--	--	--	--------------------	-----------------

**Note:**



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36688**

Purchase Order Date 6/13/2017

PO Print Date 6/14/2017

Page Number 3 of 3

**Order From :** VU-TWM001

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 585 768 5600  
  
**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** YRC COLLECT  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** USD  
**FOB** FCA - (Free Carrier)

**Deliver To:** nazim

6	71401-45	PROCUREMENT QUALITY CLAUSES	6/20/2017	1.00	Line Total:	\$230.00
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Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

Line Total: \$230.00

Line Total: \$0.00

PO Total: \$856.40

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.